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SEQUENCE LISTING



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<130> SHIM-012
<140> 09/936,883
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<150> JP 1999-75305 <151> 1999-03-19

<141> 2001-12-21

<150> JP 1999-306623 <151> 1999-10-28

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<170> PatentIn Ver. 2.0

<210> 1 <211> 1143 <212> DNA <213> Homo sapiens <220>

<221> CDS <222> (1)..(1140)

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<302> A mesangium-predominant gene, megsin, is a new serpin upregulated in IgA nephropathy.

<303> J. Clin. Invest.

<304> 120 <305> 4

<306> 828-836

<307> 1998-08-15

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aga gag atg gat gac aat caa gga aat gga aat gtg ttc ttt tcc tct 96
Arg Glu Met Asp Asp Asn Gln Gly Asn Gly Asn Val Phe Phe Ser Ser
20 25 30

ctg.agc ctc ttc gct gcc ctg gcc ctg gtc cgc ttg ggc gct caa gat 144 Leu Ser Leu Phe Ala Ala Leu Ala Leu Val Arg Leu Gly Ala Gln Asp 35 40 45

gac tcc ctc tct cag att gat aag ttg ctt cat gtt aac act gcc tca 192 Asp Ser Leu Ser Gln Ile Asp Lys Leu Leu His Val Asn Thr Ala Ser 50 55 60



					tct Ser 70											240
					gat Asp											288
					ctt Leu											336
					gcc Ala											384
					cat His											432
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					tct Ser											528
ttc Phe	aaa Lys	ggc Gly	aag Lys 180	tgg Trp	caa Gln	tca Ser	gcc Ala	ttc Phe 185	acc Thr	aag Lys	agc Ser	gaa Glu	acc Thr 190	ata Ile	aat Asn	576
tgc Cys	cat His	ttc Phe 195	aaa Lys	tct Ser	ccc Pro	aag Lys	tgc Cys 200	tct Ser	G1A aaa	aag Lys	gca Ala	gtc Val 205	gcc Ala	atg Met	atg Met	624
		Glu	Arg	Lys	ttc Phe	Asn	Leu			Ile		Asp				672
					aga Arg 230											720
					ctc Leu											768
					acc Thr											816
					cag Gln											864
caa	tat	ttg	aga	gcc	cta	ggg	ctg	aaa	gat	atc	ttt	gat	gaa	tcc	aaa	912



6/

Gln Tyr Leu Arg Ala Leu Gly Leu Lys Asp Ile Phe Asp Glu Ser Lys 290 295 gea gat ctc tct ggg att gct tcg ggg ggt cgt ctg tat ata tca agg 960 Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Ile Ser Arg 305 310 atg atg\cac aaa tot tac ata gag gtc act gag gag ggc acc gag gct 1008 Met Met His Lys Ser Tyr Ile Glu Val Thr Glu Glu Gly Thr Glu Ala 330 1056 act gct gcc aca gga agt aat att gta gaa aag caa ctc cct cag tcc Thr Ala Ala Thr Gly Ser Asn Ile Val Glu Lys Gln Leu Pro Gln Ser 340 acg ctg ttt aga gct gac cac cca ttc cta ttt gtt atc agg aag gat 1104 Thr Leu Phe Arg Ala Asp His Pro Phe Leu Phe Val Ile Arg Lys Asp 355 360 gac atc atc tta ttc agt ggc aaa gtt tct tgc cct tga 1143 Asp Ile Ile Leu Phe Ser Gly Lys Val Ser Cys Pro 375 370 <210> 2 <211> 380 <212> PRT <213> Homo sapiens <400> 2 Met Ala Ser Leu Ala Ala Ala Asn Ala Glu Phe Cys Phe Asn Leu Phe 5 10 Arg Glu Met Asp Asp Asn Gln Gly Asn Gly Asn Val Phe Phe Ser Ser 25 Leu Ser Leu Phe Ala Ala Leu Ala Leu Val Arg Leu Gly Ala Gln Asp Asp Ser Leu Ser Gln Ile Asp Lys Leu Leu His\Val Asn Thr Ala Ser 50 55 Gly Tyr Gly Asn Ser Ser Asn Ser Gln Ser Gly Leu Gln Ser Gln Leu Lys Arg Val Phe Ser Asp Ile Asn Ala Ser His Lys Aşp Tyr Asp Leu Ser Ile Val Asn Gly Leu Phe Ala Glu Lys Val Tyr Gly\Phe His Lys 100 Asp Tyr Ile Glu Cys Ala Glu Lys Leu Tyr Asp Ala Lys Val Glu Arq Val Asp Phe Thr Asn His Leu Glu Asp Thr Arg Arg Asn Ile Asn Lys

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Trp Val Glu Asn Glu Thr His Gly Lys Ile Lys Asn Val Ile Gly Glu
145 ·
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Gầy Gly Ile Ser Ser Ser Ala Val Met Val Leu Val Asn Ala Val Tyr
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Phe Lys Gly Lys Trp Gln Ser Ala Phe Thr Lys Ser Glu Thr Ile Asn
                                 185
Cys His Phe Lys Ser Pro Lys Cys Ser Gly Lys Ala Val Ala Met Met
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His Gln Glu Arg Lys Phe Asn Leu Ser Val Ile Glu Asp Pro Ser Met
                        215
                                             220
Lys Ile Leu Glu Leu Arg Tyr Asn Gly Gly Ile Asn Met Tyr Val Leu
225
                    230
Leu Pro Glu Asn Asp Leu Ser Glu Ile Glu Asn Lys Leu Thr Phe Gln
                                     250
Asn Leu Met Glu Trp Thr Asn Pro Arg Arg Met Thr Ser Lys Tyr Val
Glu Val Phe Phe Pro\Gln Phe Lys Ile Glu Lys Asn Tyr Glu Met Lys
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Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Ile Ser Arg
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                                         315
Met Met His Lys Ser Tyr Ile Glu Val Thr Glu Glu Gly Thr Glu Ala
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                                     330
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Thr Leu Phe Arg Ala Asp His Pro Phe Leu Phe Val Ile Arg Lys Asp
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 tta ttc aga gag atg gat agt agt caa gga aac gga aat gta ttc ttc
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							att Ile									193
							tcg Ser 70									241
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_	_			-			ttc Phe		_				_		•	673
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							cta Leu									769

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														tat Tyr 285		865
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														ggc Gly		1009
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								ggc Gly 375								1147
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340 345 350

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1) 1)

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														aag Lys 175		528
														aaa Lys		576
														att Ile		624
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														atc Ile		864
														cgt Arg		912
														gag Glu		960
														aag Lys 335		1008
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1147

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Gly Ala Arg Gly Asp Cys Ala Arg Gln Ile Asp Lys Ala Leu His Phe 35 40 45

Asn Ile Pro Ser Arg Gln Gly Asn Ser Ser Asn Asn Gln Pro Gly Leu
50 60

Gln Tyr Gln Leu Lys Ard Val Leu Ala Asp Ile Asn Ser Ser His Lys
65 70 75 80

Asp Tyr Glu Leu Ser Ile Ala Thr Gly Val Phe Ala Glu Lys Val Tyr
85 90 95

Asp Phe His Lys Asn Tyr Ile Gu Cys Ala Glu Asn Leu Tyr Asn Ala 100 110

Lys Val Glu Arg Val Asp Phe Thr Asn Asp Val Gln Asp Thr Arg Phe 115 120 125

Lys Ile Asn Lys Trp Ile Glu Asn Glu\Thr His Gly Lys Ile Lys Lys
130 135 140

Val Leu Gly Asp Ser Ser Leu Ser Ser Ser Ala Val Met Val Leu Val
145 150 160

Asn Ala Val Tyr Phe Lys Gly Lys Trp Lys Set Ala Phe Thr Lys Thr 165 170 175

Asp Thr Leu Ser Cys Arg Phe Arg Ser Pro Thr Cys Pro Gly Lys Val

Val Asn Met Met His Gln Glu Arg Arg Phe Asn Leu Ser Thr Ile Gln
195 200 205

Gln Pro Pro Met Gln Val Leu Glu Leu Gln Tyr His Gly Oly Ile Ser 210 215 220

Met Tyr Ile Met Leu Pro Glu Asp Gly Leu Cys Glu Ile Glu Ser Lys 225 230 235 240

Leu Ser Phe Gln Asn Leu Met Asp Trp Thr Asn Arg Arg Lys Met Ays 245 250 255

Ser Gln Tyr Val Asn Val Phe Leu Pro Gln Phe Lys Ile Glu Lys Asn 260

Tyr Glu Met Thr His His Leu Lys Ser Leu Gly Leu Lys Asp Ile Phe 275

Asp Glu Ser Ser Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu 290

Tyr Val Ser Lys Leu Met Als Lys Ser Phe Ile Glu Val Ser Glu Glu 300

Gly Thr Glu Ala Thr Ala Ala Thr Glu Asn Asn Ile Val Glu Lys Gln 335

Leu Pro Glu Ser Thr Val Phe Arg Ala Asp Arg Pro Phe Leu Phe Val 340

Ile Lys Lys Asn Asp Ile Ile Leu Phe Thr Gly Lys Val Ser Cys Pro 355